

199114

4 of 4

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 8/19/06 Serial # 10/664,258 Priority Application Date 1/11/02

Your Name M. Lewis Examiner # _____

AU 2822 Phone 292-2838 Room 5A 30

In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: _____

Need before 8/22

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☐ Teaching Refs ☐
Secondary Refs ☐ Foreign Patents ☐ Other ☐

AUG 21 2006

Is this a "Fast & Focused Search" request? (Circle One) YES NO

A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-patfr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

MEM

Problem: See pages 1-3

Solution: 11 11 304

Reduce the size of the MEM

US 6,275,326

Staff Use Only

Searcher: Michael O'Brien

Searcher Phone: 571-272-2663

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 8/28/2006

Date Completed: 8/29/2006

Searcher Prep/Rev Time: 71

Online Time: 114

Type of Search

Structure (#) _____

Bibliographic ☒

Litigation _____

Fulltext _____

Patent Family ☒

Other _____

Vendors

STN ☒

Dialog ☒

Questel/Orbit _____

Lexis-Nexis _____

WWW/Internet _____

Other _____

8/28/06

10/664250

(FILE 'HOME' ENTERED AT 16:24:07 ON 28 AUG 2006)

FILE 'CAPLUS' ENTERED AT 16:24:29 ON 28 AUG 2006

L1 706819 SEA ABB=ON PLU=ON SEMICONDUCTOR OR SEMI CONDUCTOR OR CHIP OR
MICROCHIP OR IC OR INTEGRATED CIRCUIT#####
L2 1910603 SEA ABB=ON PLU=ON SUBSTRATE OR WAFER##### OR SUPPORT#####
L3 22685 SEA ABB=ON PLU=ON MEMS OR MICROMECHANICAL OR MICRO ELECTROMECHANICAL OR (MICROMECHANIC##### OR MICRO) (3A) (DEVICE OR MEANS
OR APPARATUS OR APPT) OR MEM
L4 3603104 SEA ABB=ON PLU=ON UNIT OR MODUL##### OR COMPONENT OR
ITEM OR ELEMENT OR ASSEMBL#####
L5 646 SEA ABB=ON PLU=ON L1 AND L2 AND L3 AND L4
L6 47 SEA ABB=ON PLU=ON L5 AND (MOVING OR MOVABLE OR MOTILE OR NON
STATIC OR DYNAMIC#####)
L7 53 SEA ABB=ON PLU=ON SL6 AND PY<=2002
L8 22 SEA ABB=ON PLU=ON L6 AND PY<=2002
L9 1 SEA ABB=ON PLU=ON L8 AND MIRROR#####
L10 1 SEA ABB=ON PLU=ON L8 AND MEMOR#####
L11 7 SEA ABB=ON PLU=ON L8 AND (SENS##### OR DETECT#####)
L12 6 SEA ABB=ON PLU=ON L8 AND (ELECTROD##### OR CATHOD##### OR
ANOD##### OR CONDUCT#####)
L13 6 DUP REM L12 (0 DUPLICATES REMOVED)
L14 72 SEA ABB=ON PLU=ON (REDU##### OR DECREAS##### OR SHRINK#####
OR MINIM#####) (3A) MEMS
L15 24 SEA ABB=ON PLU=ON L14 AND PY<=2002
L16 24 DUP REM L15 (0 DUPLICATES REMOVED)
L17 0 SEA ABB=ON PLU=ON L15 AND L6
L18 2 SEA ABB=ON PLU=ON L15 AND MIRROR#####
L19 24 SEA L16
L20 4 SEA ABB=ON PLU=ON L19 AND (SENS##### OR DETECT#####)
L*** DEL 18 S L14 AND L1
L21 24 SEA L16
L22 4 SEA ABB=ON PLU=ON L21 AND L1
L23 24 SEA L16
L24 9 SEA ABB=ON PLU=ON L23 AND L4
D L9 IBIB ABS
L25 1 SEA ABB=ON PLU=ON L10 NOT L9
D L25 IBIB ABS
L26 6 SEA ABB=ON PLU=ON L11 NOT (L9 OR L10)
D L26 IBIB ABS 1-6
L27 6 SEA L13
L28 3 SEA ABB=ON PLU=ON L27 NOT (L9 OR L10 OR L11)
D L28 IBIB ABS 1-3
L29 6 SEA L13
L30 2 SEA ABB=ON PLU=ON L18 NOT (L9 OR L10 OR L11 OR L29)
D L30 IBIB ABS 1-2
L31 6 SEA L13
L32 4 SEA ABB=ON PLU=ON L20 NOT (L9 OR L10 OR L11 OR L31 OR L18)
D L32 IBIB ABS 1-4
L33 6 SEA L13
L34 3 SEA ABB=ON PLU=ON L22 NOT (L9 OR L10 OR L11 OR L33 OR L18 OR
L20)
D L34 IBIB ABS 1-3
L35 6 SEA L13
L36 5 SEA ABB=ON PLU=ON L24 NOT (L9 OR L10 OR L11 OR L35 OR L18 OR
L20 OR L22)
D L36 IBIB ABS 1-5

FILE 'STNGUIDE' ENTERED AT 16:48:18 ON 28 AUG 2006

8/29/2006 1:01:29 PM
8/29/2006 1:43:37 PM

10/664258

[File 344] Chinese Patents Abs Jan 1985-2006/Jan
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607
[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	2776814	S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT????()CIRCUIT??? OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ? OR FLEX????(3N)CIRCUIT OR FLEX???? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC???? OR INTEGRAT????) (3N)FLEX????
S2	57011	S MEMS OR OPTICAL????(2N)SWITCH???? OR MICROMACHIN???? OR MICRO()MACHIN???? OR MICROELECTROMECHANICA???? OR MICRO()ELECTROMECHANICAL???? OR MICRO()ELECTRO()MECHANICAL???? OR MICROMECHANIC???? OR MICRO()MECHANIC???? OR MICRO(3N)MECHANICAL OR MICRO(2N)ELECTROMECHANICAL???? OR (MICRO OR MICROMECHANIC????) (3N) (DEVICE? ? OR MEANS OR APPARATUS OR APPT OR CHIP OR CIRCUIT????)
S3	3882318	S SUBSTRATE? ? OR WAFER???? OR SUPPORT???? OR CHIP OR MICROCHIP OR MICRO()CHIP
S4	11919304	S UNIT? ? OR ASSEMBL???? OR ENTIT???? OR GROUP? ? OR MODULE? ? OR PIECE? ? OR COMPONENT? ? OR ELEMENT? ? OR ITEM? ? OR PART? ?
S5	3786428	S MOVING OR MOVABLE OR SHIFT???? OR ADVANC???? OR MOBIL???? OR MOTIVE OR MOTIL???? OR MOTION???? OR ACTIV???? OR AGITATE????
S6	2301630	S (CONTROL???? OR MASTER??? OR GUID???? OR OPERAT???? OR GOVERN????) (3N) (ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?) OR ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?
S7	7929119	S SENS???? OR DETECT???? OR MONITOR???? OR MEASUR???? OR TEST???? OR GAUG???? OR PROB???? OR ACTUAT???? OR CONTROL????(2N) (MEANS OR DEVICE OR APPT OR APPARATUS)
S8	5068531	S (RECORD??? OR NONVOLATILE OR NON()VOLATILE? ?) (3N) (ELEMENT??? OR DEVICE? ? OR APPARATUS? ? OR METHOD? ?) OR DISK???? OR DISC???? OR RECORD???? OR SCRIB??? OR READ???? OR WRIT???? OR MEMOR???? OR CACH???? OR BUFFER???? OR CD()ROM OR CD OR COMPACT() (DISC??? OR DISK??? OR RAM? ? OR DRAM? ? OR NVRAM? ? OR SRAM? ? OR ROM? ? OR PROM? ? OR EPROM? ? OR EEPROM? ? OR STOR????(3N) (DEVICE? ? OR MEANS OR APPARATUS) OR (READ???? OR DATA? ? OR WRIT???? OR RECORD???? OR INFORMATION? ? OR INFO? ? OR COMPUT????????) (3N) (STOR???? OR MEMOR???? OR MEDIA OR MEDIUM)
S9	330	S (SHRINK???? OR DOWNSIZ???? OR DOWN()SIZING OR DECREAS???? OR MINIM???? OR DIMINISH???? OR REDUC???? OR ECONOM????) (3N) (MEM OR MEMS)
S10	108080	S IC=(B81B-001/00 OR B81B-003/00 OR B81B-005/00 OR B81B-007/02 OR B81B-007/04 OR B81C-001/00 OR B81C-005/00 OR G02B-026/08 OR H01L-021/00 OR H01L-021/302 OR H01L-027/00 OR H01L-027/148 OR G02B-006/35 OR G02B-006/12 OR G02B-006/28)
S11	77402	S MC=(U12-B03F1B OR V06-M06G OR V06-U04E OR V06-U14 OR V07-G15 OR U13-D04 OR V07-G15 OR V07-K05 OR W01-A06B5A OR W01-A06B5B OR W01-A06C1 OR W02-C04A9 OR W02-C04B1)
S12	2	S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8 AND S9
S13	11	S S1 AND S2 AND S5 AND S6 AND S9
S14	4	S S13 AND S10
S15	5	S S13 AND S11
S16	9	S S2 AND S4 AND S5 AND S8 AND S9
S17	2	S S16 AND S10
S18	7	S S16 AND S11
S19	3	S S14 NOT S12
S20	3	S S15 NOT (S12 OR S14)
S21	1	S S17 NOT (S12 OR S14 OR S15)
S22	4	S S18 NOT (S12 OR S14 OR S15 OR S17)

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[File 2] INSPEC 1898-2006/Jan W2
[File 6] NTIS 1964-2006/Jan W4
[File 8] Ei Compendex(R) 1970-2006/Jan W4
[File 34] SciSearch(R) Cited Ref Sci 1990-2006/Jan W4
[File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec
[File 35] Dissertation Abs Online 1861-2006/Jan
[File 65] Inside Conferences 1993-2006/Jan W5
[File 94] JICST-EPlus 1985-2006/Nov W3
[File 99] Wilson Appl. Sci & Tech Abs 1983-2006/Apr
[File 144] Pascal 1973-2006/Jan W2
[File 23] CSA Technology Research Database 1963-2006/Jan
[File 103] Energy SciTec 1974-2006/Jan B1
[File 31] World Surface Coatings Abs 1976-2006/Jan
[File 95] TEME-Technology & Management 1989-2006/Jan W5
[File 56] Computer and Information Systems Abstracts 1966-2006/Aug
[File 57] Electronics & Communications Abstracts 1966-2006/Aug
[File 68] Solid State & Superconductivity Abstracts 1966-2006/Jan
[File 60] ANTE: Abstracts in New Tech & Engineer 1966-2006/Jan
[File 293] Engineered Materials Abstracts 1966-2006/Jan
[File 239] Mathsci 1940-2005/Feb
[File 256] TECINFOSOURCE 82-2005/DEC

Set	Items	Description
S1	5287678	S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT????()CIRCUIT??? OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ? OR FLEX????(3N)CIRCUIT OR FLEX???? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC???? OR INTEGRAT????) (3N)FLEX????
S2	344864	S MEMS OR OPTICAL????(2N)SWITCH???? OR MICROMACHIN???? OR MICRO()MACHIN???? OR MICROELECTROMECHANICA???? OR MICRO()ELECTROMECHANICAL???? OR MICRO()ELECTRO()MECHANICAL???? OR MICROMECHANIC???? OR MICRO()MECHANIC???? OR MICRO(3N)MECHANICAL OR MICRO(2N)ELECTROMECHANICAL???? OR (MICRO OR MICROMECHANIC????) (3N) (DEVICE? ? OR MEANS OR APPARATUS OR APPT OR CHIP OR CIRCUIT????)
S3	5204238	S SUBSTRATE? ? OR WAFER???? OR SUPPORT???? OR CHIP OR MICROCHIP OR MICRO()CHIP
S4	26337029	S UNIT? ? OR ASSEMBL???? OR ENTIT???? OR GROUP? ? OR MODULE? ? OR PIECE? ? OR COMPONENT? ? OR ELEMENT? ? OR ITEM? ? OR PART????
S5	13373004	S MOVING OR MOVABLE OR SHIFT???? OR ADVANC???? OR MOBIL???? OR MOTIVE OR MOTIL???? OR MOTION???? OR ACTIV???? OR AGITATE????
S6	2930641	S (CONTROL???? OR MASTER??? OR GUID???? OR OPERAT???? OR GOVERN???)(3N) (ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?) OR ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?
S7	27244212	S SENS???? OR DETECT???? OR MONITOR???? OR MEASUR???? OR TEST???? OR GAUG???? OR PROB???? OR ACTUAT???? OR CONTROL????(2N) (MEANS OR DEVICE OR APPT OR APPARATUS)
S8	1535	S (SHRINK???? OR DOWNSIZ???? OR DOWN()SIZING OR DECREAS???? OR MINIM???? OR DIMINISH???? OR REDUC???? OR ECONOM????) (3N) (MEM OR MEMS)
S9	0	S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8
S10	225	S S1 AND S2 AND S8
S11	76	S S10 AND S5
S12	41	S S11 AND S4
S13	0	S S12 AND S6
S14	33	S S12 AND S7
S15	19	RD (unique items)
S16	8	S S15 AND PY<=2002
S17	85	S S2 AND S4 AND S5 AND S8
S18	37	S S17 AND (MEMOR???? OR PROCESS???? OR STOR???? OR BUFFER????)
S19	15	S S18 AND S3

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S20 11 RD (unique items)
S21 6 S S20 AND PY<=2002
S22 2 S S17 AND MIRROR?????
S23 1 RD (unique items)
S24 0 S S12 AND MIRROR??????
S25 27324 S S1 AND S2 AND S5
S26 1493 S S25 AND MIRROR?????
S27 1 S S26 AND S8
S28 718 S S26 AND S4
S29 127 S S28 AND S6
S30 67 S S29 AND (MEMOR????? OR PROCESS????? OR STOR????? OR BUFFER?????)
S31 35 RD (unique items)
S32 27 S S31 AND PY<=2002
S33 1 S S32 AND DRIV????(3N)CIRCUIT????
S34 19 S S32 AND S3
S35 2 S S21 NOT S16
S36 2 S S22 NOT (S16 OR S21)
S37 1 S S27 NOT (S16 OR S21 OR S22)
S38 1 S S33 NOT (S16 OR S21 OR S22 OR S27)
S39 19 S S34 NOT (S16 OR S21 OR S22 OR S27 OR S33)

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8/29/2006 11:05:56 AM

s pn=us 6275326

S1 1 S PN=US 6275326

map pn/ct=

SearchSave "SC471" stored
1 Select Statement, 1 Search Term(s)
SearchSave SC471

1 SearchSave(s), 1 Search Term(s)

map pn

SearchSave "SC472" stored
9 Select Statements, 101 Search Term(s)
SearchSave SC472

1 SearchSave(s), 101 Search Term(s)

[File 344] Chinese Patents Abs Jan 1985-2006/Jan
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607
[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	28	S1:S8 FROM 344, 347, 350, 371
S2	8	S S1 AND PY<=2002